

MSDS Report

Product Name: WANGPAI® Dual Patent Environmental Friendly Gold Solubilizing Agent

Formulation/Revision Date: 2019/06/21

Report No.: QZJ190621014

Publish Date: 2019/06/21

MSDS Report

Applicant 申请商:	广西千足金高新技术有限公司 Guangxi Qianzujin High Technology co., ltd
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Manufacturer 制造商:	广西千足金高新技术有限公司 Guangxi Qianzujin High Technology co., ltd
	广西南宁市良庆区玉洞大道 28 号盛邦珑湖 19 号楼一层 112 号 No. 112, 1st Floor, Building 19, Shengbanglonghu, 28 Yudong Avenue, Liangqing District, Nanning City, Guangxi, China
Product Description 产品名称:	王牌®双专利环保溶金剂 WANGPAI® Dual Patent Environmental Friendly Gold Solubilizing Agent
Use 用途:	提炼黄金 Extracting Gold
Trade Mark 商标:	王牌 WANGPAI

This report is limited to the above applicant company and the product model only.

本报告仅限于以上所述的申请公司及对应的产品和型号

MSDS Report

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Formulation/Revision Date: 2019/06/21

1. Chemical product and company identification

1.1 Product identifier

Chinese name: 王牌®双专利环保溶金剂

English Name: WANGPAI® Dual Patent Environmental Friendly Gold Solubilizing Agent

Product aliases: Green gold extracting agent, Environmental protection gold agent, Green gold ore dressing agent, Green gold leaching agent, Green leaching gold agent

1.2 Product use: Extracting gold

1.3 Manufacturer details

Manufacturer: Guangxi Qianzujin High Technology co., ltd

Address: No. 112, 1st Floor, Building 19, Shengbanglonghu, 28 Yudong Avenue, Liangqing District, Nanning City, Guangxi, China

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2. Composition/Component Identify the Information

Material Composition Name	CAS No.	Weight Ratio (%)
Sodium cyanate (NaOCN)	917-61-3	35 - 45
Sodium thiocyanate (NaSCN)	540-72-7	5 - 10
Sodium Carbonate (Na ₂ CO ₃)	1313-59-3	35 - 50
Nitrogen (N)	7727-37-9	3 - 8
Iron (Fe)	7439-89-6	0.3 - 1
Water insoluble matter	-- -- --	0.3 - 1

3. Risk overview

3.1 Risk characteristics: This product is slightly toxic, has a slight irritation, non flammable, strong stability.

3.2 Contact approach: eye contact, skin contact, inhalation, swallow。

3.3 Potential health effects:

Eye contact: Product contact eyes are slightly irritating, Long time contact and failed to timely and effective treatment may cause slight eye irritation pain.

Skin contact: Skin contact with this product does not affect health, but will stimulate the broken skin causing inflammation. In view of good industrial hygiene, any chemical contact should be kept to a minimum and good personal protection.

Inhalation: Inhalation of a small amount of dust will not cause significant harm to human body, excessive inhalation or long-term inhalation of dust can cause respiratory system mild irritation and lead to lung injury. The site of production, storage and use should be kept ventilation, During the process of production and use

MSDS Report

Product Name: WANGPAI® Dual Paten Environmental Friendly Gold Solubilizing Agent

Formulation/Revision Date: 2019/06/21

should use dust mask to avoid excessive inhalation of dust.

Swallow: Eating products will stimulate the mouth and digestive tract, excessive intake can cause vomiting, loss of appetite. Should keep away from children to avoid eating.

Induce cancer: Unknown

4. First aid measures

- 4.1 Eye contact:** Lift off the upper and lower eyelids with flow water or saline rinse for at least 10 minutes, if no improvement should be made to seek medical help.
- 4.2 Skin contact:** Take off contaminated clothing, and use a lot of clean water and soap and other anti pollution products thoroughly clean. If infection of wound and cause injury should seek medical treatment in time.
- 4.3 Inhalation:** If there are any side effects quickly withdraw from the scene to the fresh air, maintain respiratory tract unobstructed. Such as difficulty in breathing, give oxygen. If the breath stops, immediately carry out artificial respiration and to the hospital for medical treatment.
- 4.4 Swallow:** A small amount of water into the mouth rinse with water, excessive eating vomit after drink enough water, milk or egg white, and timely seek medical help.

5. Fire control measures

- 5.1 General information:** Where the product stack is in place of fire, Firefighter must wear self-contained breathing apparatus and the whole body anti-fire suit to extinguish fire from upper wind direction. And fully protect the fire device to avoid containers may explode when heated
- 5.2 Inflammable grade:** 0.
- 5.3 Appropriate fire extinguishing media:** Water mist, carbon dioxide, dry powder, foam fog.

6. Leakage emergency treatment

- 6.1 Small leak:** When a small amount of leakage occurs, clean the spill directly into the package bag or other processing containers.
- 6.2 Large leak:** When a large leak occurs, should be isolate the leakage area, restrict staff and livestock access. Processing personnel wear protective equipment to recycle the spill to the related packaging container.

7. Operation handling and storage

- 7.1 Handling:** The use of the product should pay attention to the operation personnel protection measures, wear goggles, masks and gloves. When processing pay attention to personal hygiene, do not eat, drink or smoke. In handling process pay attention to the protection of the packaging is not damaged, as far as possible to avoid dust, to avoid the operator excessive inhalation
- 7.2 Storage:** This product has low toxicity, non flammable, strong stability, and has no strict requirements on the storage conditions, and can be stored in a cool, ventilated and dry place according to the general goods.

8. Contact control and personal protection

- 8.1 Ventilation and engineering control:** In the processing of products to maintain good ventilation.
- 8.2 Personal protection:** A short period of time and small amount in contact with this product without special protection needs. Long time using big amount in the production process wear ordinary protective clothing,

MSDS Report

Product Name: WANGPAI® Dual Paten Environmental Friendly Gold Solubilizing Agent

Formulation/Revision Date: 2019/06/21

rubber gloves, anti-dust masks and goggles. After the treatment must take bath, change clothes, rinse mouth.

9. Physical and chemical properties

Physical state	solid
Appearance	Grey solid block, particle powder.
Odor	Odorless
Color	Grey
PH value	9-13
Steam pressure	Unknown
Steam density (air=1)	Unknown
Relative density (Water =1)	>1
Solubility	Soluble in water

10. Stability and reactivity

10.1 Chemical stability: This product is stable under normal temperature and pressure.

10.2 Solubility: Soluble in water.

10.3 Prohibited mixture: This product reacting with a strong acid will produce harmful gases, prohibited the use or storage together with strong acid.

10.4 Hazardous decomposition products : The product itself is relatively stable, usually does not decompose. However, in the case of high temperature or with the reaction of reactive chemicals may be decomposed to produce harmful substances.

10.5 Hazardous polymerization: Will not occur danger polymerization

11. Toxicological data

Animal acute toxicity data	LD50(No detailed data)	LC50 (No detailed data)
Chronic toxicity	Unknown	
Irritating	Slight irritation, dust has obvious irritation (no detailed test data)	
Sensitization	Uncertain	
Mutagenicity	Uncertain	
Induce cancer	Uncertain	
Teratology	Uncertain	

12. Ecological information

12.1 Ecological harm: Normal use is harmless for water organisms and water environment.

12.2 Degradability: The possibility of short-term degradation of harmful products is not high.

12.3 Environmental considerations: In the process of production and use, avoid the waste piled up in the drinking water source.

13. Waste disposal

13.1 Waste disposal method: Before disposal should refer to state and local regulations. Do not pile up in the

MSDS Report

Product Name: WANGPAI® Dual Paten Environmental Friendly Gold Solubilizing Agent

Formulation/Revision Date: 2019/06/21

surrounding water sources.

13.2 Packaging waste disposal method: Process according to local regulations. Also can be used for general recycling.

14. Transport information

Transport Department proper shipping name: Not specified.

Air transportation: IATA not restricted

United Nations Code: Not applicable.

Package category: Ordinary woven bag with polyethylene inner bag.

Dangerous goods classification: Not applicable.

Marine pollutant: No.

Packaging requirements: No special provisions.

ADR/RID classification: Not applicable.

Transportation note: When shipping, the packing should be complete and the loading should be safe. During transport process, ensure that the container does not leak, do not collapse, do not fall, do not damage. Strictly prohibit transport or pack together with acids, food, etc.. Transportation should prevent insolation, rain.

15. Regulatory information

Workplace Safe use of chemicals ([1996] 423), and other regulations, have made the corresponding provisions for the safe use of chemicals, production, storage, transportation, loading and unloading, etc..

15.1 Chemical safety phrase:

Avoid child contact

Avoid inhalation of dust

Avoid contact with eyes

If swallowed, seek medical advice immediately

15.2 Chemical risk phrase:

If swallowed, inhaled is harmful to health

Irritating to respiratory system, skin and eye

16. Other information

This security note (MSDS) contains information that is based on knowledge status quo and current legislation.

Because this information may be applied to beyond our control conditions, for which we are not familiar with, please provide proper suggestions, possible follow-up safety data sheets will refer to these proposed changes, but the corresponding conditions beyond the control of the use this product to have consequences that may arise, we do not assume any responsibility.

This information is based on the actual situation and end use purposes. The data is only for reference.

This security note data sheet is only a guide to health, safety, and environmental impacts, and should not be interpreted as a guarantee of technical performance or specific functionality.

When in use, must be strictly in accordance with the chemical operation program.